

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

**San Joaquin River Basin**

<b>NA0010</b>	Overall LMA Rating	Total LMA Miles				
<b>Lower San Joaquin Levee District</b>	<b>M</b>	<b>191.36</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	19.91		19.91	10.40%		
Trim / Thin Trees	0.08		0.08	0.04%		
Encroachments	0.06	0.01	0.10	0.05%	1.74	
Animal Control	1.09		1.09	0.57%		
Slope Stability	0.76		0.76	0.40%		
Erosion / Bank Caving	0.02	0.01	0.06	0.03%		
Crown Surface / Depressions / Rutting	3.78		3.78	1.98%		
Repair Gates	0.01	0.01	0.05	0.03%		
<i>Channels</i>						
Encroachments	0.02		0.02	0.01%		
Concrete Foundations	0.01		0.01	0.01%		
<i>Supplemental</i>						
DWR Erosion Survey		0.16	0.64	0.33%		
<b>LMA Totals:</b>	<b>25.74</b>	<b>0.19</b>	<b>26.50</b>	<b>13.85%</b>	<b>1.74</b>	<b>0.00</b>

<b>Unit No. 01 San Joaquin River RB</b>	Overall Unit Rating	Total Unit Miles				
<b>NA0010</b>	<b>U</b>	<b>22.56</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	7.27		7.27	32.23%		
Trim / Thin Trees	0.01		0.01	0.04%		
Encroachments	0.01		0.01	0.04%	0.55	
Animal Control	0.07		0.07	0.31%		
<b>Unit Totals:</b>	<b>7.36</b>	<b>0.00</b>	<b>7.36</b>	<b>32.62%</b>	<b>0.55</b>	<b>0.00</b>

<b>Unit No. 02A San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
<b>NA0010</b>	<b>M *</b>	<b>7.87</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments					0.01	
Erosion / Bank Caving		0.01	0.04	0.51%		
Repair Gates		0.01	0.04	0.51%		
<b>Unit Totals:</b>	<b>0.00</b>	<b>0.02</b>	<b>0.08</b>	<b>1.02% *</b>	<b>0.01</b>	<b>0.00</b>

<b>Unit No. 02B San Joaquin River LB</b>	Overall Unit Rating	Total Unit Miles				
<b>NA0010</b>	<b>A</b>	<b>5.92</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
No Items						
<b>Unit Totals:</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00%</b>	<b>0.00</b>	<b>0.00</b>

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**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin (cont.)***

Unit No. 03 San Joaquin River RB		Overall Unit Rating	Total Unit Miles			
NA0010		U	2.16			
Rated Item		M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles
Earthen Levee						
Vegetation		0.73		0.73	33.80%	
Slope Stability		0.01		0.01	0.46%	
Erosion / Bank Caving		0.01		0.01	0.46%	
Unit Totals:		0.75	0.00	0.75	34.72%	0.00 0.00

Unit No. 04 San Joaquin River LB		Overall Unit Rating	Total Unit Miles			
NA0010		A	1.58			
Rated Item		M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles
Earthen Levee						
Encroachments						1.17
Unit Totals:		0.00	0.00	0.00	0.00%	1.17 0.00

Unit No. 05 East Side Bypass RB		Overall Unit Rating	Total Unit Miles			
NA0010		A	34.75			
Rated Item		M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles
Earthen Levee						
Trim / Thin Trees		0.07		0.07	0.20%	
Encroachments		0.02		0.02	0.06%	0.01
Animal Control		0.10		0.10	0.29%	
Crown Surface / Depressions / Rutting		1.51		1.51	4.35%	
Repair Gates		0.01		0.01	0.03%	
Unit Totals:		1.71	0.00	1.71	4.92%	0.01 0.00

Unit No. 06 East Side Bypass LB		Overall Unit Rating	Total Unit Miles			
NA0010		A	36.38			
Rated Item		M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles
Earthen Levee						
Vegetation		0.89		0.89	2.45%	
Animal Control		0.14		0.14	0.39%	
Slope Stability		0.74		0.74	2.03%	
Crown Surface / Depressions / Rutting		1.01		1.01	2.78%	
Unit Totals:		2.78	0.00	2.78	7.64%	0.00 0.00

Unit No. 07 Bear Creek Bypass RB		Overall Unit Rating	Total Unit Miles			
NA0010		A	3.62			
Rated Item		M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments PO Miles CO Miles
Earthen Levee						
Animal Control		0.01		0.01	0.28%	
Unit Totals:		0.01	0.00	0.01	0.28%	0.00 0.00

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**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin (cont.)***

<b>Unit No. 08 Bear Creek Bypass LB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>A</b>	<b>3.63</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Animal Control	0.17		0.17	4.68%		
<i>Unit Totals:</i>	0.17	0.00	0.17	4.68%	0.00	0.00
<b>Unit No. 09 Owens Creek Bypass RB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>U</b>	<b>0.88</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Crown Surface / Depressions / Rutting	0.40		0.40	45.46%		
<i>Unit Totals:</i>	0.40	0.00	0.40	45.46%	0.00	0.00
<b>Unit No. 10 Owens Creek Bypass LB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>U</b>	<b>0.82</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Crown Surface / Depressions / Rutting	0.80		0.80	97.56%		
<i>Unit Totals:</i>	0.80	0.00	0.80	97.56%	0.00	0.00
<b>Unit No. 11 Mariposa Bypass RB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>A</b>	<b>3.31</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Animal Control	0.02		0.02	0.60%		
<i>Unit Totals:</i>	0.02	0.00	0.02	0.60%	0.00	0.00
<b>Unit No. 12 Mariposa Bypass LB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>A</b>	<b>3.33</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Animal Control	0.01		0.01	0.30%		
<i>Unit Totals:</i>	0.01	0.00	0.01	0.30%	0.00	0.00
<b>Unit No. 13 Ash Slough RB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>U</b>	<b>1.28</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	1.24		1.24	96.88%		
Animal Control	0.01		0.01	0.78%		
<i>Unit Totals:</i>	1.25	0.00	1.25	97.66%	0.00	0.00

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**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin (cont.)***

<b>Unit No. 14 Ash Slough LB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>U</b>	<b>1.28</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	2.56		2.56	200.00%		
<i>Channels</i>						
Concrete Foundations	0.01		0.01	0.78%		
<i>Unit Totals:</i>	2.57	0.00	2.57	200.78%	0.00	0.00

  

<b>Unit No. 15 Berenda Slough RB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>U</b>	<b>2.03</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.59		0.59	29.06%		
<i>Unit Totals:</i>	0.59	0.00	0.59	29.06%	0.00	0.00

  

<b>Unit No. 16 Berenda Slough LB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>U</b>	<b>1.98</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	1.10		1.10	55.56%		
Slope Stability	0.01		0.01	0.51%		
<i>Unit Totals:</i>	1.11	0.00	1.11	56.06%	0.00	0.00

  

<b>Unit No. 17 Chowchilla Canal Bypass RB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>A</b>	<b>16.09</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.01		0.01	0.06%		
Animal Control	0.38		0.38	2.36%		
<i>Unit Totals:</i>	0.39	0.00	0.39	2.42%	0.00	0.00

  

<b>Unit No. 18 Chowchilla Canal Bypass LB</b>	Overall Unit Rating	Total Unit Miles				
NA0010	<b>M</b>	<b>15.33</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	2.54		2.54	16.57%		
Encroachments	0.01		0.01	0.07%		
<i>Unit Totals:</i>	2.55	0.00	2.55	16.63%	0.00	0.00

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**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin (cont.)***

Unit No. 22A East Side Canal LB		Overall Unit Rating	Total Unit Miles			
NA0010		A	5.50			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Earthen Levee						
Animal Control	0.13		0.13	2.36%		
Erosion / Bank Caving	0.01		0.01	0.18%		
Crown Surface / Depressions / Rutting	0.06		0.06	1.09%		
Channels						
Encroachments	0.02		0.02	0.36%		
Unit Totals:	0.22	0.00	0.22	4.00%	0.00	0.00

Unit No. 23 San Joaquin River RB		Overall Unit Rating	Total Unit Miles			
NA0010		M	10.25			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Earthen Levee						
Vegetation	0.83		0.83	8.10%		
Encroachments		0.01	0.04	0.39%		
Animal Control	0.04		0.04	0.39%		
Supplemental						
DWR Erosion Survey		0.16	0.64	6.24%		
Unit Totals:	0.87	0.17	1.55	15.12%	0.00	0.00

Unit No. 24 San Joaquin River LB		Overall Unit Rating	Total Unit Miles			
NA0010		U	8.34			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Earthen Levee						
Vegetation	2.16		2.16	25.90%		
Encroachments	0.01		0.01	0.12%		
Animal Control	0.01		0.01	0.12%		
Unit Totals:	2.18	0.00	2.18	26.14%	0.00	0.00

Unit No. 25 Salt Slough RB		Overall Unit Rating	Total Unit Miles			
NA0010		A	2.47			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
No Items						
Unit Totals:	0.00	0.00	0.00	0.00%	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	22.56
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/2/2011 - 5/5/2011		10/31/2011 - 11/3/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Right	22.56	10/31/2011 11/03/2011	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.07	0.15	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.348223 ° -120.959593 °	37.347282 ° -120.960470 °	4 Y
2	0.07	2.52	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.348222 ° -120.959598 °	37.328627 ° -120.934388 °	3
3	0.16	0.16	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees over roadway to at least 12 feet above ground level.	37.347152 ° -120.960560 °	37.347152 ° -120.960560 °	7 Y
4	0.24	0.27	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.346152 ° -120.961402 °	37.345822 ° -120.961638 °	1
5	0.66	2.52	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.340858 ° -120.961470 °	37.328637 ° -120.934398 °	9 Y
6	3.18	3.18	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.321053 ° -120.928785 °	37.321053 ° -120.928785 °	10
7	3.72	3.74	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.313892 ° -120.926507 °	37.313598 ° -120.926607 °	2 Y
8	4.00	4.08	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.310837 ° -120.926182 °	37.310003 ° -120.925313 °	5 Y
9	4.20	4.20	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.308540 ° -120.924003 °	37.308540 ° -120.924003 °	6
10	4.45	4.71	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.306242 ° -120.920797 °	37.302563 ° -120.920903 °	11
11	6.04	6.64	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.303715 ° -120.902115 °	37.303838 ° -120.891912 °	13 Y
12	6.04	6.64	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.303717 ° -120.902108 °	37.303837 ° -120.891907 °	12
13	7.41	7.81	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.299855 ° -120.879455 °	37.298730 ° -120.872387 °	14
14	8.53	9.04	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.296267 ° -120.860195 °	37.297492 ° -120.851050 °	16
15	8.53	9.04	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.296262 ° -120.860183 °	37.297492 ° -120.851052 °	15
16	19.33	19.33	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: Farmer installed a pipe across levee crown and landside and waterside slopes. Ramp is not according to standards.	37.200923 ° -120.756987 °	37.200923 ° -120.756987 °	8 Y
17	22.09	22.56	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	37.169962 ° -120.754240 °	37.166983 ° -120.750127 °	22 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor



**Flood Control Project Maintenance  
Levee Inspections**

## Levee Inspection Report By Mile - Fall 2011

### Lower San Joaquin Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	10/31/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.07
End Levee Mile	0.15
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking northwest at dense vegetation on landside slope.

richard\_f\_20111114\_395.jpg



Levee Mile Report Line	3
Start Levee Mile	0.16
End Levee Mile	0.16
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at tree limbs over roadway.

richard\_f\_20111114\_396.jpg



Levee Mile Report Line	5
Start Levee Mile	0.66
End Levee Mile	2.52
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at typical view of vegetation on waterside and landside slopes.

richard\_f\_20111114\_397.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected

**Flood Control Project Maintenance  
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**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	10/31/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	3.72
End Levee Mile	3.74
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Typical view of squirrel burrows in this section of levee

richard\_f\_20110922\_111.jpg



Levee Mile Report Line	7
Start Levee Mile	3.72
End Levee Mile	3.74
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical view of squirrel burrows on landside slope in this section of levee.

richard\_f\_20110922\_112.jpg



Levee Mile Report Line	8
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at irrigation ditch along landside toe.

richard\_f\_20110922\_113.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

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Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	10/31/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	4.00
End Levee Mile	4.08
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at irrigation ditch along landside toe.

richard\_f\_20110922\_114.jpg



Levee Mile Report Line	11
Start Levee Mile	6.04
End Levee Mile	6.64
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense vegetation on waterside and landside slopes.

richard\_f\_20111114\_398.jpg



Levee Mile Report Line	16
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking north at unauthorized pipe across crown of levee with a ramp.

richard\_f\_20110922\_115.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	10/31/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking northwest at pipe on waterside slope.

richard\_f\_20110922\_116.jpg



Levee Mile Report Line	16
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking northeast at pipe on landside slope.

richard\_f\_20110922\_117.jpg



Levee Mile Report Line	16
Start Levee Mile	19.33
End Levee Mile	19.33
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized pipe across levee and ramp.

richard\_f\_20111114\_399.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
--	--	--	---

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	22.56	10/31/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking at landside ditch at levee toe.

richard\_f\_20110922\_118.jpg



Levee Mile Report Line	17
Start Levee Mile	22.09
End Levee Mile	22.56
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at ditch along landside toe.

richard\_f\_20110922\_119.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 02A San Joaquin River			Left	7.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	5/5/2011 - 5/5/2011		11/3/2011 - 11/3/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/03/2011 11/03/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.77	0.77	Earthen Levee	Erosion / Bank Caving	WS	U	Schedule repair of erosion site prior to the next inspection.	37.286877 ° -120.874222 °	37.286877 ° -120.874222 °	5 Y
2	2.30	2.30	Earthen Levee	Repair Gates	CR	U	Inspector Comments: Gate is damaged and should be replaced.	37.291678 ° -120.851438 °	37.291678 ° -120.851438 °	4 Y
3	2.33	2.33	Earthen Levee	Encroachments	LS	PO	Ramp	37.291433 ° -120.850917 °	37.291433 ° -120.850917 °	2 Y
4	3.28	3.28	Interior Drainage & Piping Systems	Flap Gates	WS	A		37.279773 ° -120.844777 °	37.279773 ° -120.844777 °	1

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/03/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at major erosion on waterside slope.

richard\_f\_20111114\_445.jpg



Levee Mile Report Line	1
Start Levee Mile	0.77
End Levee Mile	0.77
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking southeast at erosion along waterside slope.

richard\_f\_20111114\_447.jpg



Levee Mile Report Line	2
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Crown
Category	Earthen Levee
Item	Repair Gates

Looking at damaged gate.

richard\_f\_20111114\_444.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02A San Joaquin River	Left	7.87	11/03/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	2.33
End Levee Mile	2.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northwest at unauthorized ramp on landside slope.

richard\_f\_20111114\_442.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 02B San Joaquin River			Left	5.92
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/5/2011 - 5/5/2011		11/3/2011 - 11/3/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River						Left	5.92	11/03/2011 11/03/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	7.88	13.79	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	37.231405 ° -120.811955 °	37.231405 ° -120.811955 °	1 Y
2	7.88	13.79	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	37.231407 ° -120.811953 °	37.231407 ° -120.811953 °	2

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02B San Joaquin River	Left	5.92	11/03/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	7.88
End Levee Mile	13.79
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at a typical view of levee slopes.	
richard_f_20111114_441.jpg	

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 03 San Joaquin River			Right	2.16
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/4/2011 - 5/4/2011		11/2/2011 - 11/2/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River						Right	2.16	11/02/2011 11/02/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.44	1.17	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.106122 ° -120.585670 °	37.098825 ° -120.576995 °	1 Y
2	0.44	0.44	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.106127 ° -120.585668 °	37.106127 ° -120.585668 °	2 Y
3	2.06	2.06	Earthen Levee	Erosion / Bank Caving	LS	M	Note and monitor erosion site. Inspector Comments: Erosion occuring around pipe outlet.	37.089373 ° -120.567613 °	37.089373 ° -120.567613 °	3 Y

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River	Right	2.16	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.44
End Levee Mile	1.17
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense vegetation on waterside slope.

richard\_f\_20111114\_433.jpg



Levee Mile Report Line	2
Start Levee Mile	0.44
End Levee Mile	0.44
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking southwest at levee damage cause by vehicle traffic on landside slope.

richard\_f\_20111114\_434.jpg



Levee Mile Report Line	3
Start Levee Mile	2.06
End Levee Mile	2.06
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking northeast at erosion around pipe outlet on landside slope.

richard\_f\_20111114\_435.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 04 San Joaquin River			Left	1.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/4/2011 - 5/4/2011		11/2/2011 - 11/2/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.58	11/02/2011 11/02/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.32	1.49	Earthen Levee	Encroachments	CR	PO	Agricultural Ditch Inspector Comments: Agricultural Ditch within 10' easement.	37.108822 ° -120.590718 °	37.096532 ° -120.578027 °	3 Y

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 San Joaquin River	Left	1.58	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.32
End Levee Mile	1.49
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking northeast at irrigation canal along landside toe.

richard\_f\_20111114\_437.jpg



Levee Mile Report Line	1
Start Levee Mile	0.32
End Levee Mile	1.49
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking north at irrigation canal along landside toe.

richard\_f\_20111114\_438.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 05 East Side Bypass			Right	34.75

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/2/2011 - 5/5/2011		10/31/2011 - 11/1/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass							Right	34.75	10/31/2011 11/01/2011	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	2.81	2.86	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.256803 ° -120.785407 °	37.256835 ° -120.784528 °	3 Y
2	3.32	3.32	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.255297 ° -120.777032 °	37.255297 ° -120.777032 °	1 Y
3	3.54	3.54	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: Downed tree limb on landside slope and toe.	37.255192 ° -120.773595 °	37.255192 ° -120.773595 °	2 Y
4	6.50	6.50	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.230497 ° -120.727263 °	37.230497 ° -120.727263 °	15
5	6.58	6.58	Earthen Levee	Repair Gates	CR	M		37.229807 ° -120.726538 °	37.229807 ° -120.726538 °	17 Y
6	6.58	6.58	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.229733 ° -120.726450 °	37.229733 ° -120.726450 °	7 Y
7	6.58	8.09	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.229733 ° -120.726450 °	37.213520 ° -120.706475 °	6 Y
8	8.06	8.06	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.213600 ° -120.706630 °	37.213600 ° -120.706630 °	4
9	8.83	8.83	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.205778 ° -120.696843 °	37.205778 ° -120.696843 °	5
10	11.48	11.48	Earthen Levee	Encroachments	LS	M	Garbage Inspector Comments: Sofa and chair on landside slope.	37.186510 ° -120.657923 °	37.186510 ° -120.657923 °	8 Y
11	11.49	11.49	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.186440 ° -120.657870 °	37.186440 ° -120.657870 °	10 Y
12	25.49	25.54	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.047630 ° -120.488530 °	37.047042 ° -120.488092 °	9
13	29.80	29.80	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.017540 ° -120.431955 °	37.017540 ° -120.431955 °	16
14	34.50	34.50	Earthen Levee	Encroachments	WS	PO	Ramp Inspector Comments: Unauthorized ramp on waterside slope.	36.978555 ° -120.368467 °	36.978555 ° -120.368467 °	11 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	10/31/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	2.81
End Levee Mile	2.86
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at dense trees on landside slope.

richard\_f\_20111114\_400.jpg



Levee Mile Report Line	2
Start Levee Mile	3.32
End Levee Mile	3.32
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at trees on landside toe

richard\_f\_20111114\_401.jpg



Levee Mile Report Line	3
Start Levee Mile	3.54
End Levee Mile	3.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at downed tree limb on landside toe.

richard\_f\_20111114\_402.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable

PO : Partially Obstructing  
CO : Completely Obstructing  
W : Watch/Monitor

N : Not Inspected, see Inspector Comment    C : Corrected



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	10/31/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	6.58
End Levee Mile	6.58
Location	Crown
Category	Earthen Levee
Item	Repair Gates

Looking south at damaged gate.

richard\_f\_20110922\_123.jpg



Levee Mile Report Line	6
Start Levee Mile	6.58
End Levee Mile	6.58
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking east at levee slope damage by livestock on landside slope.

richard\_f\_20111114\_412.jpg



Levee Mile Report Line	7
Start Levee Mile	6.58
End Levee Mile	8.09
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking east at rutting cause by livestock traffic on levee crown.

richard\_f\_20111114\_411.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 East Side Bypass	Right	34.75	10/31/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	11.48
End Levee Mile	11.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at garbage on landside slope.

richard\_f\_20111114\_403.jpg



Levee Mile Report Line	11
Start Levee Mile	11.49
End Levee Mile	11.49
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking south at downed tree limb on landside slope and toe.

richard\_f\_20111114\_404.jpg



Levee Mile Report Line	14
Start Levee Mile	34.50
End Levee Mile	34.50
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized ramp on landside slope.

richard\_f\_20111114\_405.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 06 East Side Bypass			Left	36.38
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/3/2011 - 5/5/2011		11/2/2011 - 11/2/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass							Left	36.38	11/02/2011 11/02/2011	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	4.67	4.67	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several rodent holes on levee crown.	37.244012 ° -120.761372 °	37.244012 ° -120.761372 °	16 Y
2	4.72	4.72	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodent holes next to gate post on waterside shoulder.	37.243540 ° -120.760782 °	37.243540 ° -120.760782 °	10
3	5.83	5.83	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.238355 ° -120.742677 °	37.238355 ° -120.742677 °	9
4	6.12	6.12	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.235777 ° -120.738598 °	37.235777 ° -120.738598 °	22
5	6.15	6.15	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.235623 ° -120.738017 °	37.235623 ° -120.738017 °	21
6	7.17	7.17	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.226675 ° -120.724498 °	37.226675 ° -120.724498 °	7
7	9.81	10.82	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage. Inspector Comments: Levee crown should be regraded due to excessive wash board.	37.200697 ° -120.692927 °	37.190315 ° -120.680265 °	6
8	14.91	17.23	Earthen Levee	Crown Surface / Depressions / Rutting	LS	W	Keep the crown roadway free of vegetation.	37.163025 ° -120.630648 °	37.141161 ° -120.599867 °	4
9	22.90	22.96	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.088663 ° -120.538193 °	37.087968 ° -120.537485 °	8
10	24.50	24.93	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landside erosion caused by livestock	37.071198 ° -120.519220 °	° °	5 Y
11	27.56	27.87	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Landside erosion caused by livestock.	37.036955 ° -120.484395 °	37.032887 ° -120.481225 °	3 Y
12	28.62	28.62	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.030102 ° -120.469122 °	37.030102 ° -120.469122 °	19
13	31.01	31.01	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.017955 ° -120.435017 °	37.017955 ° -120.435017 °	2 Y
14	35.27	36.16	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	36.974650 ° -120.383022 °	36.974430 ° -120.367090 °	1

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	4.67
End Levee Mile	4.67
Location	Crown
Category	Earthen Levee
Item	Animal Control

Looking at squirrel hole on crown of levee.

richard\_f\_20110922\_124.jpg



Levee Mile Report Line	1
Start Levee Mile	4.67
End Levee Mile	4.67
Location	Crown
Category	Earthen Levee
Item	Animal Control

Looking north at several rodent holes on levee crown.

richard\_f\_20111114\_432.jpg



Levee Mile Report Line	10
Start Levee Mile	24.50
End Levee Mile	24.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking north at livestock traffic along landside slope.

richard\_f\_20111114\_430.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	24.50
End Levee Mile	24.93
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking south at livestock traffic along landside slope.	
richard_f_20111114_431.jpg	



Levee Mile Report Line	11
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking north at heavy livestock traffic on landside shoulder and slope.	
richard_f_20111114_428.jpg	



Levee Mile Report Line	11
Start Levee Mile	27.56
End Levee Mile	27.87
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking south at livestock traffic along landside slope.	
richard_f_20111114_429.jpg	



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Bypass	Left	36.38	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	31.01
End Levee Mile	31.01
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical rodent holes on landside slope.

richard\_f\_20111114\_427.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 07 Bear Creek Bypass			Right	3.62
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/2/2011 - 5/2/2011		10/31/2011 - 10/31/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass						Right	3.62	10/31/2011 10/31/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.78	3.62	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	37.262208 ° -120.762568 °	37.254778 ° -120.719718 °	2 Y
2	0.78	3.62	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	37.262212 ° -120.762558 °	37.254777 ° -120.719722 °	1 Y
3	1.51	1.51	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.263930 ° -120.750680 °	37.263930 ° -120.750680 °	3 Y

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 07 Bear Creek Bypass	Right	3.62	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.78
End Levee Mile	3.62
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at typical overview of waterside slope.

richard\_f\_20111107\_382.jpg



Levee Mile Report Line	2
Start Levee Mile	0.78
End Levee Mile	3.62
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of landside slope.

richard\_f\_20111107\_380.jpg



Levee Mile Report Line	3
Start Levee Mile	1.51
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking south at damaged by livestock on landside slope.

richard\_f\_20111107\_381.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 08 Bear Creek Bypass			Left	3.63

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/2/2011 - 5/2/2011		10/31/2011 - 10/31/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass						Left	3.63	10/31/2011 10/31/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	3.46	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	37.253083 ° -120.768463 °	37.253280 ° -120.721613 °	4 Y
2	1.42	1.42	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.263077 ° -120.751528 °	37.263077 ° -120.751528 °	2
3	1.61	1.61	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.261842 ° -120.748510 °	37.261842 ° -120.748510 °	1
4	2.12	2.12	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.257688 ° -120.741573 °	37.257688 ° -120.741573 °	7 Y
5	3.40	3.54	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.253052 ° -120.722647 °	37.253600 ° -120.720198 °	3

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 08 Bear Creek Bypass	Left	3.63	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.46
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking east at typical view of levee.

richard\_f\_20111107\_383.jpg



Levee Mile Report Line	4
Start Levee Mile	2.12
End Levee Mile	2.12
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking at typical view of rodent holes on landside slope and toe.

richard\_f\_20111107\_384.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 09 Owens Creek Bypass			Right	0.88
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	5/4/2011 - 5/4/2011		10/31/2011 - 10/31/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.88	10/31/2011 10/31/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.40	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.220193 ° -120.712993 °	37.219950 ° -120.706498 °	2
2	0.00	0.87	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Landside slope and crown has heavy livestock traffic.	37.220185 ° -120.712990 °	37.220032 ° -120.698282 °	1 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 09 Owens Creek Bypass	Right	0.88	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.87
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at a typical view of levee.

richard\_f\_20111107\_385.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 10 Owens Creek Bypass			Left	0.82

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	5/4/2011 - 5/4/2011		10/31/2011 - 10/31/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass						Left	0.82	10/31/2011 10/31/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.80	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.217983 ° -120.711388 °	37.219322 ° -120.698155 °	2
2	0.00	0.80	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	37.217982 ° -120.711388 °	37.219325 ° -120.698157 °	1 Y

**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 10 Owens Creek Bypass	Left	0.82	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	0.80
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at a typical view of levee.

richard\_f\_20111107\_386.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 11 Mariposa Bypass			Right	3.31
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/5/2011 - 5/5/2011		11/2/2011 - 11/2/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass						Right	3.31	11/02/2011 11/02/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	3.29	Earthen Levee	Vegetation	WS	A	Remove the wild growth other than native grasses from the levee slopes.	37.202315 ° -120.695330 °	37.202315 ° -120.695330 °	3 Y
2	1.77	1.77	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.202743 ° -120.723187 °	37.202743 ° -120.723187 °	1
3	3.30	3.30	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Vegetation complies to O & M standards.	37.202312 ° -120.695318 °	37.202312 ° -120.695318 °	2

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 11 Mariposa Bypass	Right	3.31	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.29
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking north at a typical view of levee.

richard\_f\_20111117\_462.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 12 Mariposa Bypass			Left	3.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/5/2011 - 5/5/2011		11/3/2011 - 11/3/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass						Left	3.33	11/03/2011 11/03/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	3.33	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	37.200935 ° -120.755175 °	37.200935 ° -120.755175 °	3 Y
2	2.33	2.33	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.200907 ° -120.712978 °	37.200907 ° -120.712978 °	1

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 12 Mariposa Bypass	Left	3.33	11/03/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	3.33
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at a typical view of levee slopes.  
(November 2011)

richard\_f\_20111114\_440.jpg



**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 13 Ash Slough			Right	1.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/3/2011 - 5/3/2011		11/1/2011 - 11/1/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.28	11/01/2011 11/01/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	1.26	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.033982 ° -120.441997 °	37.046320 ° -120.428138 °	1 Y
2	0.14	0.14	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.035697 ° -120.441197 °	37.035697 ° -120.441197 °	3

**\* Location**

LS : Land Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 13 Ash Slough	Right	1.28	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	1.26
Location	
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard\_f\_20111107\_387.jpg



**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 14 Ash Slough			Left	1.28

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	5/3/2011 - 5/3/2011		11/1/2011 - 11/1/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough						Left	1.28	11/01/2011 11/01/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	1.28	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.032400 ° -120.441237 °	37.045520 ° -120.427340 °	1 Y
2	0.00	1.28	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.032400 ° -120.441237 °	37.045520 ° -120.427340 °	2
3	0.08	0.08	Channels	Concrete Foundations	WS	M	Inspector Comments: Erosion on downstream side of structure	37.033473 ° -120.440802 °	37.033473 ° -120.440802 °	3 Y

**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 14 Ash Slough	Left	1.28	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	1.28
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard\_f\_20111107\_388.jpg



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Channels
Item	Concrete Foundations

Looking at erosion on downstream side of structure.

richard\_f\_20111107\_389.jpg



Levee Mile Report Line	3
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Water Side
Category	Channels
Item	Concrete Foundations

Looking south at erosion at and near structure in the channel.

richard\_f\_20111107\_390.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 15 Berenda Slough			Right	2.03

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	5/3/2011 - 5/3/2011		11/1/2011 - 11/1/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough						Right	2.03	11/01/2011 11/01/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	1.51	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	36.996535 ° -120.410155 °	36.996563 ° -120.383097 °	1 Y
2	1.52	1.99	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	36.996572 ° -120.382907 °	36.996587 ° -120.374503 °	3 Y
3	1.52	1.64	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	36.996570 ° -120.382905 °	36.996577 ° -120.380748 °	2

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 15 Berenda Slough	Right	2.03	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	1.51
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee.

richard\_f\_20111107\_391.jpg



Levee Mile Report Line	2
Start Levee Mile	1.52
End Levee Mile	1.99
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at dense vegetation on landside and waterside slope.

richard\_f\_20111107\_392.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 16 Berenda Slough			Left	1.98
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/3/2011 - 5/3/2011		11/1/2011 - 11/1/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

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3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough						Left	1.98	11/01/2011 11/01/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	1.42	1.97	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	36.995473 ° -120.383472 °	36.995483 ° -120.373568 °	2
2	1.42	1.97	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	36.995473 ° -120.383472 °	36.995488 ° -120.373568 °	1 Y
3	1.77	1.77	Earthen Levee	Slope Stability	LS	M	Repair the levee slope damaged by vehicle traffic and prevent access where possible.	36.995488 ° -120.377152 °	36.995488 ° -120.377152 °	3 Y

**\* Location**

LS : Land Side  
WS : Water Side  
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**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 16 Berenda Slough	Left	1.98	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	1.42
End Levee Mile	1.97
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking at dense tumble weeds on landside and waterside slope.

richard\_f\_20111107\_393.jpg



Levee Mile Report Line	3
Start Levee Mile	1.77
End Levee Mile	1.77
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking at landside damage cause by vehicle traffic.

richard\_f\_20111107\_394.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 17 Chowchilla Canal Bypass			Right	16.09
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/3/2011 - 5/3/2011		11/1/2011 - 11/1/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 17 Chowchilla Canal Bypass						Right	16.09	11/01/2011 11/01/2011	Richard Willoughby	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	4.69	4.69	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: Farmer installed 10" steel irrigation pipe across levee crown.	36.923368 ° -120.336500 °	36.923368 ° -120.336500 °	1 Y
2	6.51	6.60	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	36.898124 ° -120.326714 °	36.896943 ° -120.326133 °	4 Y
3	7.27	7.39	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.887869 ° -120.321697 °	36.886341 ° -120.320940 °	5
4	8.11	8.28	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.876132 ° -120.317926 °	36.873749 ° -120.317465 °	6

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 17 Chowchilla Canal Bypass	Right	16.09	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	4.69
End Levee Mile	4.69
Location	Crown
Category	Earthen Levee
Item	Encroachments

Looking south at unauthorized pipe across levee crown.

richard\_f\_20111114\_413.jpg



Levee Mile Report Line	2
Start Levee Mile	6.51
End Levee Mile	6.60
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking west at typical rodent holes on landside slope.

richard\_f\_20111114\_414.jpg



Levee Mile Report Line	2
Start Levee Mile	6.51
End Levee Mile	6.60
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Looking west at typical view of rodent holes on landside slope.

richard\_f\_20111114\_415.jpg



**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 18 Chowchilla Canal Bypass			Left	15.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	5/3/2011 - 5/3/2011		11/2/2011 - 11/2/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 18 Chowchilla Canal Bypass				Left	15.33	11/02/2011 11/02/2011	Richard Willoughby	

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	7.53	8.78	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense tumble weed on landside and waterside shoulder.	36.872307 ° -120.319380 °	36.854355 ° -120.316502 °	2
2	8.04	8.04	Earthen Levee	Encroachments	WS	M	Garbage Inspector Comments: Garbage on waterside shoulder.	36.865062 ° -120.317977 °	36.865062 ° -120.317977 °	4 Y
3	11.86	13.15	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Dense tumble weed on landside and waterside shoulder and slope	36.815400 ° -120.305080 °	36.797353 ° -120.308560 °	1 Y

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 18 Chowchilla Canal Bypass	Left	15.33	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	8.04
End Levee Mile	8.04
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at garbage on waterside slope.

richard\_f\_20111114\_426.jpg



Levee Mile Report Line	3
Start Levee Mile	11.86
End Levee Mile	13.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking north at tumble weed along landside and waterside shoulders.

richard\_f\_20111114\_425.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 22A East Side Canal			Left	5.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	5/2/2011 - 5/2/2011		10/31/2011 - 10/31/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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Signature of LMA Representative

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal				Left	5.50	10/31/2011 10/31/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.10	0.10	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site. Inspector Comments: Erosion located next to screw gate.	37.206985 ° -120.696225 °	37.206985 ° -120.696225 °	7 Y
2	0.68	0.88	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.215360 ° -120.698078 °	37.218128 ° -120.697457 °	8
3	3.44	3.44	Earthen Levee	Animal Control	WS	M	Repair the levee slope damaged by livestock and prevent large animal access.	37.251372 ° -120.715320 °	37.251372 ° -120.715320 °	2
4	3.65	3.65	Earthen Levee	Animal Control	WS	M	Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: There're several slope stability along this channel cause by animal foot traffic that need to be monitored.	37.253465 ° -120.717952 °	37.253465 ° -120.717952 °	1 Y
5	3.85	3.85	Channels	Encroachments	WS	M	Inspector Comments: Stevenson Irrigation District constructed a concrete weir across channel without a permit. Still waiting for permit.	37.255568 ° -120.720551 °	37.255568 ° -120.720551 °	4 Y
6	4.68	4.68	Channels	Encroachments	WS	M	Inspector Comments: Old wooden bridge in channel should be removed.	37.264250 ° -120.731280 °	37.264250 ° -120.731280 °	3 Y
7	4.80	4.86	Earthen Levee	Animal Control	WS	M	Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion caused by livestock on waterside toe.	37.265180 ° -120.732745 °	37.265743 ° -120.733602 °	5 Y
8	4.81	4.84	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.265330 ° -120.732960 °	37.265705 ° -120.733553 °	10
9	5.07	5.10	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Regrade the crown roadway for proper drainage. Inspector Comments: Minor rutting on levee crown.	37.267682 ° -120.736597 °	37.267967 ° -120.736913 °	9 Y
10	5.15	5.20	Earthen Levee	Animal Control	WS	M	Repair the levee slope damaged by livestock and prevent large animal access. Inspector Comments: Erosion caused by livestock on waterside toe.	37.268492 ° -120.737493 °	37.269133 ° -120.738208 °	6 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking downstream at erosion around screw gate can on waterside slope.

richard\_f\_20110922\_133.jpg



Levee Mile Report Line	1
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking upstream at erosion around screw gate can.

richard\_f\_20110922\_134.jpg



Levee Mile Report Line	1
Start Levee Mile	0.10
End Levee Mile	0.10
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking at erosion near and around screw gate can.

richard\_f\_20110922\_135.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	3.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking upstream at one of several slope stability along canal.

richard\_f\_20110922\_125.jpg



Levee Mile Report Line	4
Start Levee Mile	3.65
End Levee Mile	3.65
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking at one of several slope stability along canal.

richard\_f\_20110922\_126.jpg



Levee Mile Report Line	5
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Channels
Item	Encroachments

Looking northeast at weir in channel.

richard\_f\_20110922\_130.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Channels
Item	Encroachments

Looking at upstream side of weir.

richard\_f\_20110922\_131.jpg



Levee Mile Report Line	5
Start Levee Mile	3.85
End Levee Mile	3.85
Location	Water Side
Category	Channels
Item	Encroachments

Looking north at weir.

richard\_f\_20110922\_132.jpg



Levee Mile Report Line	6
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking downstream at dilapidated bridge in channel.

richard\_f\_20110922\_127.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking southeast at dilapidated bridge in channel.

richard\_f\_20110922\_128.jpg



Levee Mile Report Line	6
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking northeast at dilapidated bridge in channel.

richard\_f\_20110922\_129.jpg



Levee Mile Report Line	6
Start Levee Mile	4.68
End Levee Mile	4.68
Location	Water Side
Category	Channels
Item	Encroachments

Looking north at dilapidated bridge in canal.

richard\_f\_20111114\_406.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	4.80
End Levee Mile	4.86
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking north at erosion on waterward slope caused by livestock.

richard\_f\_20111114\_407.jpg



Levee Mile Report Line	7
Start Levee Mile	4.80
End Levee Mile	4.86
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking southwest at erosion on waterward toe caused by livestock.

richard\_f\_20111114\_408.jpg



Levee Mile Report Line	9
Start Levee Mile	5.07
End Levee Mile	5.10
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at rutting on levee crown.

richard\_f\_20111114\_410.jpg



**\* Location**

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WS : Water Side  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 22A East Side Canal	Left	5.50	10/31/2011 10/31/2011	Richard Willoughby

Levee Mile Report Line	10
Start Levee Mile	5.15
End Levee Mile	5.20
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Looking north at erosion caused by livestock.

richard\_f\_20111114\_409.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 23 San Joaquin River			Right	10.25
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	5/3/2011 - 5/3/2011		11/1/2011 - 11/1/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**Comments**

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DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 23 San Joaquin River						Right	10.25	11/01/2011 11/01/2011		Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	1.16	1.28	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	36.772832 ° -120.265742 °	36.773123 ° -120.263603 °	1 Y
2	1.56	1.75	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	36.771778 ° -120.259143 °	36.771625 ° -120.255817 °	2 Y
3	3.30	3.30	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.774403 ° -120.234705 °	36.774403 ° -120.234705 °	3 Y
4	3.45	3.45	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.776537 ° -120.234573 °	36.776537 ° -120.234573 °	9
5	4.14	4.14	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.784212 ° -120.228815 °	36.784212 ° -120.228815 °	10
6	4.46	4.46	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	36.784523 ° -120.223292 °	36.784523 ° -120.223292 °	11
7	5.23	5.23	Earthen Levee	Encroachments	WS	U	Material Inspector Comments: Sand pile in levee channel over three feet high. Pile is to close to levee.	36.791400 ° -120.214222 °	36.791400 ° -120.214222 °	7 Y
8	5.68	5.72	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.792012 ° -120.206270 °	36.791857 ° -120.205685 °	5
9	7.84	8.08	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	36.785663 ° -120.182890 °	36.789127 ° -120.182298 °	13
10	7.84	8.08	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	36.785672 ° -120.182873 °	36.789130 ° -120.182297 °	12
11	9.10	9.21	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 08/16/2011: This site is immediately downstream of the riparian protection section. Dense vegetation growing on the toe and slope of the bank seems to indicate the most part of the erosion occurred prior to last winter. The closest spot is 12 feet away from the levee toe. [2011 Site ID:NA0010U23RM224.27]	36.802116 ° -120.173847 °	36.802116 ° -120.173847 °	4 Y
12	9.21	9.26	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 08/16/2011: The erosion is cutting into the levee. The site is located at the outside of a river bend, and the erosions were caused by river flows during the last flooding season. The ground was covered by dense grasses. Animal burrow holes are visible. [2011 Site ID:NA0010U23RM224.33]	36.802898 ° -120.173278 °	36.802898 ° -120.173278 °	6 Y

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	1.16
End Levee Mile	1.28
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south wild roses on landside toe.

richard\_f\_20111114\_421.jpg



Levee Mile Report Line	2
Start Levee Mile	1.56
End Levee Mile	1.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at Johnson grass along landside toe.

richard\_f\_20111114\_422.jpg



Levee Mile Report Line	3
Start Levee Mile	3.30
End Levee Mile	3.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberry on landside toe.

richard\_f\_20111114\_423.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking upstream (south) at sand pile within 100' of waterside levee toe.

richard\_f\_20110922\_136.jpg



Levee Mile Report Line	7
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at sand pile within 100' of waterside levee toe.

richard\_f\_20110922\_137.jpg



Levee Mile Report Line	7
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking downstream (north) at sandpile within 100' of waterside levee toe.

richard\_f\_20110922\_138.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	5.23
End Levee Mile	5.23
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking south at sand pile on channel.

richard\_f\_20111114\_424.jpg



Levee Mile Report Line	11
Start Levee Mile	9.10
End Levee Mile	9.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream at the downstream erosion site from the upstream site location. The boulders shows the riparian protection.

SJR2011\_NA0010U23RM224.27\_1.jpg



Levee Mile Report Line	11
Start Levee Mile	9.10
End Levee Mile	9.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream standing at the middle of the erosion site.

SJR2011\_NA0010U23RM224.27\_2.jpg



**\* Location**

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WS : Water Side  
CR : Crown

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	9.10
End Levee Mile	9.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close look at the site. Dense vegetation is visible.

SJR2011\_NA0010U23RM224.27\_3.jpg



Levee Mile Report Line	11
Start Levee Mile	9.10
End Levee Mile	9.21
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking upstream. This image shows the ending point of the riparian protection.

SJR2011\_NA0010U23RM224.27\_4.jpg



Levee Mile Report Line	12
Start Levee Mile	9.21
End Levee Mile	9.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

The tree in the image marks the starting point of this erosion site.

SJR2011\_NA0010U23RM224.33\_1.jpg



<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 23 San Joaquin River	Right	10.25	11/01/2011 11/01/2011	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	9.21
End Levee Mile	9.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Standing next to the erosion point cutting into the levee.

SJR2011\_NA0010U23RM224.33\_2.jpg



Levee Mile Report Line	12
Start Levee Mile	9.21
End Levee Mile	9.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream. The image shows the point where the erosion is cutting into the levee.

SJR2011\_NA0010U23RM224.33\_3.jpg



Levee Mile Report Line	12
Start Levee Mile	9.21
End Levee Mile	9.26
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Looking downstream. The image shows the starting point of the riparian protection.

SJR2011\_NA0010U23RM224.33\_4.jpg



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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 24 San Joaquin River			Left	8.34
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/3/2011 - 5/3/2011		11/2/2011 - 11/2/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River						Left	8.34	11/02/2011 11/02/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.76	1.85	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	36.766028 ° -120.279443 °	36.771655 ° -120.264455 °	4
2	1.75	1.75	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Large sink hole 15-18' from landside toe. See field investigation report for more detail. Farmer repaired irrigation pipe and filled in sink hole.	36.771117 ° -120.266202 °	36.771117 ° -120.266202 °	1
3	3.46	3.46	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	36.769345 ° -120.238370 °	36.769345 ° -120.238370 °	7
4	5.39	6.46	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	36.782337 ° -120.222930 °	36.789063 ° -120.207438 °	2 Y
5	6.33	6.33	Earthen Levee	Encroachments	WS	M	Prunings Inspector Comments: Large pruning pile in channel.	36.788172 ° -120.209520 °	36.788172 ° -120.209520 °	3 Y

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 24 San Joaquin River	Left	8.34	11/02/2011 11/02/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	5.39
End Levee Mile	6.46
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking south at dense vegetation on waterside slope.

richard\_f\_20111114\_416.jpg



Levee Mile Report Line	5
Start Levee Mile	6.33
End Levee Mile	6.33
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Looking east at large pruning pile in channel.

richard\_f\_20111114\_417.jpg



**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Lower San Joaquin Levee District**

Waterway			Bank	Unit Miles
Unit No. 25 Salt Slough			Right	2.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	5/5/2011 - 5/5/2011		11/3/2011 - 11/3/2011	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough						Right	2.47	11/03/2011 11/03/2011	Richard Willoughby

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	2.47	Earthen Levee	Vegetation	CR	A	Remove the wild growth other than native grasses from the levee slopes.	37.271175 ° -120.866608 °	37.271175 ° -120.866608 °	2 Y
2	0.27	1.77	Earthen Levee	Crown Surface / Depressions / Rutting	CR	W	Keep the crown roadway free of vegetation.	37.292165 ° -120.880693 °	37.271175 ° -120.866618 °	1

**\* Location**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Lower San Joaquin Levee District**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 25 Salt Slough	Right	2.47	11/03/2011 11/03/2011	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	2.47
Location	
Category	Earthen Levee
Item	Vegetation

Looking at typical view of levee slopes.

richard\_f\_20111114\_446.jpg



**\* Location**

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CR : Crown

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